

**Schottky Barrier Rectifier**

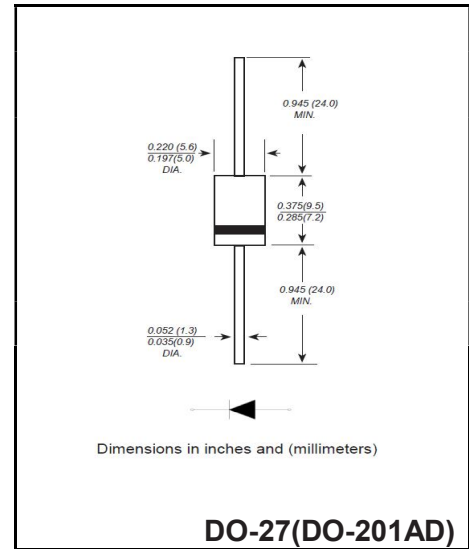
**Reverse Voltage - 45V**

**Forward Current - 10 A**



**FEATURES**

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Low forward voltage drop
- ◆ Metal silicon junction ,majority carrier conduction
- ◆ Guard ring for over voltage protection
- ◆ Low power loss high efficiency
- ◆ High current capability ,Low forward voltage drop High surge capability
- ◆ For use in low voltage ,high frequency inverters,free wheeling ,and polarity protection applications
- ◆ High temperature soldering:260°C MAX at 10 seconds,per JESD 22-B106 or MIL-STD-750,method 2026
- ◆ Case: JEDEC DO-27(D0-201AD) molded plastic body



**Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified**

Parameter		Symbols	YFW10L45	Units
Maximum Repetitive Peak Reverse Voltage		<b>V<sub>RRM</sub></b>	45	<b>V</b>
Maximum RMS voltage		<b>V<sub>RMS</sub></b>	31.5	<b>V</b>
Maximum DC Blocking Voltage		<b>V<sub>DC</sub></b>	45	<b>V</b>
Maximum Average Forward Rectified Current	Per diode	<b>I<sub>F(AV)</sub></b>	10	<b>A</b>
Peak Forward Surge Current, 8.3ms Single Half Sine-wave superimposed on rated load per diode		<b>I<sub>FSM</sub></b>	125	<b>A</b>
Operating Temperature Range		<b>T<sub>J</sub></b>	-65 to +150	<b>°C</b>
Storage Temperature Range		<b>T<sub>STG</sub></b>	-65 to +150	<b>°C</b>
Thermal resistance from junction to ambient	DO-27	<b>R<sub>θJC</sub></b>	25	<b>°C/W</b>

**Note1: Thermal resistance from Junction to case per leg mounted on heatsink.**

**Electrical Characteristics (Per Leg) unless otherwise specified**

Characteristics		Symbols	Min	Typ	Max	Units
Maximum instantaneous forward voltage at I(Av>Note 1)	1A@ T=25C 2A@T=25°C 3A@T=25°C 5A@T=25°C 10A@T=25°C	<b>V<sub>F</sub></b>	-	0.37	-	<b>V</b>
	1A@ T=105°C 2A@T=105°C 3A@T=105°C 5A@T=105C 10A@T=105C		-	0.29	-	
Maximum Reverse Current at RatedDC Blocking Voltage(Note 2)	TA=25°C	<b>I<sub>R</sub></b>	-	70	120	<b>uA</b>
	TA=125°C		-	-	40	<b>mA</b>

**Note2: (1)Pulse test: 300 μs pulse width, 1 % duty cycle  
(2) Pulse test: Pulse width ≤ 40 ms**

**RATINGS AND CHARACTERISTIC CURVES**

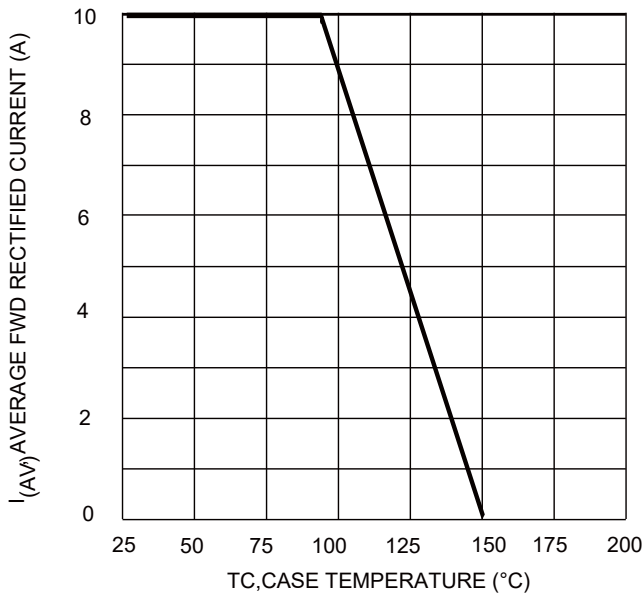


Fig. 1 Forward Derating Curve

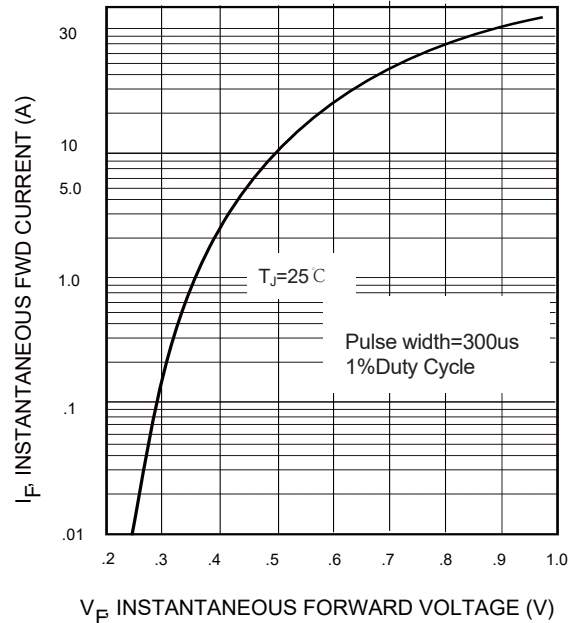


Fig. 2 Typical Forward Characteristics

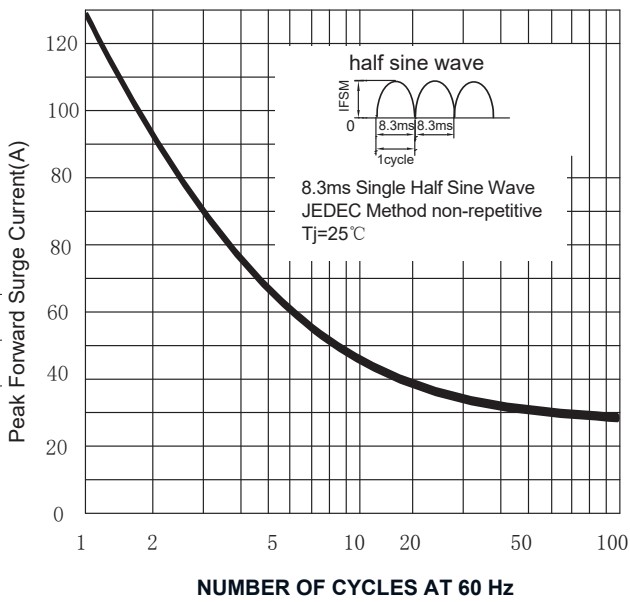


Fig. 3 Peak Forward Surge Current

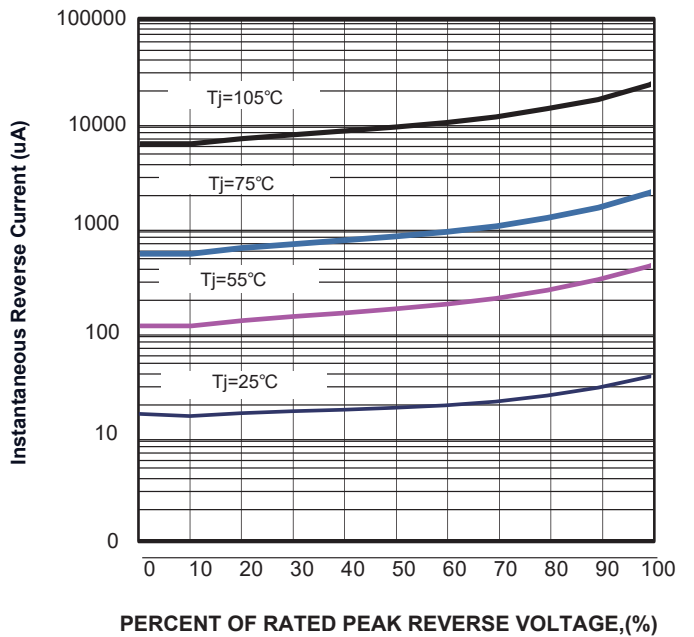
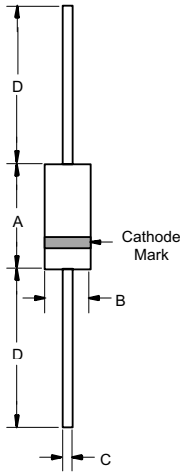


FIG.4-TYPICAL FORWARD CHARACTERISTICS

**Package Outline DO-201AD(DO-27)**



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.370	---	9.50	
B	---	.250	---	6.40	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
DO-201AD(DO-27)	BOX	250/1000/1250	EIA-481-1

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